	Application No.	Applicant(s)	
Notice of Allowability	10/601,585	TAKAGI ET AL.	_
	Examiner	Art Unit	
	Robert R. Koehler	1775	_
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS	e'e
1. X This communication is responsive to the originally-filed app	lication papers.		
2. X The allowed claim(s) is/are <u>1-10</u> .			
3. $igotimes$ The drawings filed on <u>24 June 2003</u> are accepted by the Ex	kaminer.		
 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of the priority documents have 	been received. been received in Application No cuments have been received in this	national stage application from the	
noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submi	ENT of this application.		
5. L. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or declara	tion is deficient.	
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the 	on's Patent Drawing Review (PTO- s Amendment / Comment or in the C 84(c)) should be written on the drawine header according to 37 CFR 1.121(Office action of ngs in the front (not the back) of d).	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary		
3. ⊠ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Da 8), 7. ☐ Examiner's Amendr		
Paper No./Mail Date <u>06242003; 12172003</u> 4. Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance	
of Biological Material	0 🗆 045	HoteR. Koehle	
		OBERT R. KOEHLER RIMARY EXAMINER ART UNIT 1775	

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DETAILED ACTION

Allowable Subject Matter

Claims 1 to 10 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art does not teach, suggest, or disclose applicants' claimed aluminum-coated structural member comprising a steel substrate and an Al-Si-Fe alloy layer formed on the surface of the steel substrate wherein the Al-Si-Fe alloy layer must possess a very low oxide content (by weight), and the alloy layer is formed to contain a softer metallurgical region having a thickness greater than or equal to 50% of the thickness of the alloy layer and extending from the surface of the steel sheet toward the outer surface of the alloy layer. The prior art does not recognize the importance of forming a ductile region within an Al-Si-Fe alloy coating layer and minimizing the total oxide weight within the entire Al-Si-Fe alloy layer for the purpose of producing a coated steel sheet having improved metal-working properties. Also, the prior art does not teach, suggest, or disclose applicants' claimed method of producing an aluminum-coated steel sheet structural member including the step of holding the aluminum-coated steel sheet in a temperature range of 900 to 950° C for a period of 2 to 8 minutes. The Examiner believes that the prior art does not recognize the usage of any high-temperature anneal (e.g., on the order of 900 to 950° C) for an aluminum-coated steel sheet followed by cooling to a temperature in the range of 700 to 800° C. The Examiner cites U.S. Patent No. 5,789,089 (Maki, et al.) as relevant prior art. Maki, et al. teaches a hot-dipped aluminum coated steel sheet and its production whereby the process taught by Maki, et al. includes an anneal step of the hot-dipped aluminum coated steel sheet in a temperature range of 300 to 530° C. Maki, et al. does not teach or reasonably suggest the usage of higher annealing temperatures, and the significantly lower annealing temperature range taught by Maki, et al. makes the hot-dipped aluminum coating layer more flexible. See line 65 in column 14 to line 61 in column 15 of the Maki, et al. patent.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Robert Koehler whose telephone number is **(571) 272-1536**. The Examiner can normally be reached on Tuesday to Friday from 9:30 AM to 7:00 PM. The Examiner can also be reached on alternate Mondays.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Deborah Jones, can be reached on **(571) 272-1535**. The fax phone number for the organization where this application or proceeding is assigned is **703-872-9306**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-

free).

ROBERT R. KOEHLER PRIMARY EXAMINER

Art Unit 1775 July 25, 2004